



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 56190

**Title:** Investigation of immune escape-associated mutations of hepatitis B virus (HBV) in patients harboring HBV drug-resistance mutations

**Reviewer's code:** 05288272

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-04-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-04-23 06:13

**Reviewer performed review:** 2020-04-27 08:56

**Review time:** 4 Days and 2 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA

**Telephone:** +1-925-399-1568

**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)

**https://**[www.wjgnet.com](http://www.wjgnet.com)

#### **SPECIFIC COMMENTS TO AUTHORS**

It is a good study that made a correlation among immune-escaped and drug-resistant mutations of HBV. You mentioned co.....without sA159V colocalization. Did you mean co-existence? If so, please correct throughout the manuscript



### PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 56190

**Title:** Investigation of immune escape-associated mutations of hepatitis B virus (HBV) in patients harboring HBV drug-resistance mutations

**Reviewer's code:** 03761093

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-04-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-04-24 04:21

**Reviewer performed review:** 2020-04-29 13:00

**Review time:** 5 Days and 8 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
**https://**www.wjgnet.com

## SPECIFIC COMMENTS TO AUTHORS

Bixia Huang et al. investigated the link between the HBV immune escape-associated mutations (mainly the sA159V) and NA resistance mutations in a large cohort of chronic hepatitis B patients. This study is of clinical significance. But some issues remain to be addressed. 1. The role of the representative immune escape-associated

mutation, sA159V, in the pathological process of chronic hepatitis B infection is suggested to be further clarified. For instance, the clinical outcome of the drug-resistant CHB patients with colocalization of sA159V should be compared with that of patients without the immune escape-associated mutation. 2. With the wide use of the

new generation of potent oral NAs such as TAF, the incidence of drug resistance is decreasing rapidly, and its significance should be downgraded accordingly. The authors should mention it. 3. The authors are suggested to provide evidence to show

the HBsAg quantitative assay (Roche Elecsys HBsAg) is not subject to the HBsAg mutations. Furthermore, in Table 3, "Analysis of clinical features in sA159V-positive and sA159V-negative patients", the unit of the HBsAg results is "COI". Actually, for the Roche Elecsys semi-quantitative HBsAg assay, results >5000 COI are very likely to reach the plateau, which means the results are beyond the upper semi-quantitative limit.

They are not semi-quantitative results any longer. This might affect the statistical result between the two patient groups. 4. In Fig 2, the sequences from the patient A's

samples are marked as "A1", "A2" and "A3". These taxon names are misleading because HBV Genotype A can be subtyped as A1, A2, and A3. Please rename them. 5. In

the Results section, the sentence "HBsAg levels determined by an anti-HBs assay" is not correct; "M2-M5 were partly resistant to ETV sensitivity with 54.9%-64.7% inhibition. "

Here the "sensitivity" should be deleted. 6. Ref 21, the guideline on prevention and treatment of chronic hepatitis B in China (2005) should be replaced with the version



# Baishideng Publishing Group

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
**https://**[www.wjgnet.com](https://www.wjgnet.com)

of 2019.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 56190

**Title:** Investigation of immune escape-associated mutations of hepatitis B virus (HBV) in patients harboring HBV drug-resistance mutations

**Reviewer's code:** 03761093

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-04-23

**Reviewer chosen by:** Dong-Mei Wang (Technical Editor)

**Reviewer accepted review:** 2020-07-08 02:31

**Reviewer performed review:** 2020-07-16 07:29

**Review time:** 8 Days and 4 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes <input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA

**Telephone:** +1-925-399-1568

**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)

**https://**[www.wjgnet.com](https://www.wjgnet.com)

The authors have improved the original MS according to my suggestions. No further comments in the re-review. I agree to accept the paper. Thank you.